AGENDA: MISR Data Users Science Symposium
Arthur Amos Noyes Laboratory, Room 153
California Institute of Technology, Pasadena, CA

Thursday, December 9

Welcome

8:15 AM	Sign-in	All	30
8:45 AM	Welcome	David Diner	15

Clouds I — Moderator: Akos Horvath, Max Planck Institute for Meteorology

9:00 AM	Multi-sensor analysis of cloud-top height in Sc-Cu transition regions	Elke Ludewig	20
9:20 AM	Interannual variability in MISR cloud top height compared to MODIS and CERES	Joel Norris	20
9:40 AM	Inferring buoyancy and entrainment rate of convective plumes from A-Train data: a framework for proper interpretation of snapshot observations from LEOs	Johnny Luo	20
10:00 AM	Evaluation of low clouds in the NCAR CAM3 and GFDL AM2 using MISR joint histograms	Benjamin Hillman	20
10:20 AM	Break	All	20
10:40 AM	The MISR Cloud Fraction by Altitude Product and the GEWEX Cloud Assessment	Guangyu Zhao	20
11:00 AM	Correcting the effect of sensor spatial resolution on cloud fraction derived from the RCCM: Operational implementation	Alexandra Jones	20

Clouds II — Moderator: Brian Kahn, JPL

11:20 AM	A global view of one-dimensional solar radiative transfer through oceanic water clouds	Larry Di Girolamo	20
11:40 AM	Impact of aerosols on cloud vertical development revealed from long-term ground and satellite large-scale measurements	Zhanqing Li	20
12:00 PM	Lunch	All	90
1:30 PM	Stereo observations for climate and weather research: From MISR to WindCam	Dong Wu	20
1:50 PM	Detecting thin cirrus with oblique camera analysis	Abhnil Prasad	20
2:10 PM	Determination of ice cloud models using MISR and MODIS measurements	Yu Xie	20
2:30 PM	Discussion	All	20

Poster session I

2:50 PM	Poster viewing and break	All	60

Polarimetry — Moderator: Russell Chipman, University of Arizona

3:50 PM	All-sky atmospheric polarization imaging	Joseph Shaw	20
4:10 PM	Early results from GroundMSPI and AirMSPI	David Diner	20
4:30 PM	A cloud over Arizona	Christine Bradley	20
4:50 PM	Take the blues away: Recovering scenes underwater	Yoav Schechner	20
5:10 PM	Discussion	All	20
5:30 PM	Adjourn		

Social event

6:30 PM	Cocktails at La Cañada Flintridge Country Club (LCFCC)
7:00 PM	Dinner and magic show at LCFCC

Friday, December 10

Aerosols I — Moderator: Suniti Sanghavi, JPL/Caltech

8:30 AM	New stereo matching of aerosol smoke plumes	Jan-Peter Muller	20
8:50 AM	Characteristics of smoke heights from peat and deforestation fires on Borneo and Sumatra	Michael Tosca	20
9:10 AM	Analysis of MISR 10-year aerosol products in East Asia and the North Pacific in dust-laden conditions	Olga Kalashnikova	20
9:30 AM	Asian dust responses to ENSO from MISR, MODIS Deep Blue and OMI aerosol observations	Jae Lee	20
9:50 AM	Aerosol retrievals over bright surfaces and comparison between MODIS Dark Target, Deep Blue and MAIAC algorithm	Alexei Lyapustin	20
10:10 AM	Break	All	20

Aerosols II — Moderator: Robert Levy, Goddard Space Flight Center

10:30 AM	The aerosol-air-mass-type-mapping imperative	Ralph Kahn	20
10:50 AM	Comparison of the simulated aerosol vertical profiles by GEOS-Chem and CMAQ in the United States	Yang Liu	20
11:10 AM	Effect of absorptivity and size distribution on retrieved AOD from MISR	Jaehwa Lee	20
11:30 AM	Hierarchical Bayesian model for higher resolution aerosol retrieval using MISR data	Bin Yu	20
11:50 AM	3-D aerosol plume tomography from MISR observations	Michael Garay	20
12:10 PM	Discussion	All	20
12:30 PM	Lunch	All	90

Surfaces — Moderator: Alexei Lyapustin, University of Maryland Baltimore County

2:00 PM	MISR-derived vegetation canopy adjustment for MODIS fractional snow cover	Anne Nolin	20
2:20 PM	Intercomparison of land surface albedo at the global and regional scale	Jan-Peter Muller	20
2:40 PM	A global scale comparison of MODIS and MISR surface albedo products	Bernard Pinty	20

Poster session II

3:00 PM	Poster viewing and break	All	60

Surfaces (continued)

4:00 PM	Monitoring canopy nitrogen using multiangle and hyperspectral data	Yuri Knyazikhin	20
4:20 PM	Mapping vegetation canopies with MISR: Progress and challenges	Mark Chopping	20
4:40 PM	Progress in deriving advanced MISR products at the full (native) spatial resolution of the sensor	Michel Verstraete	20
5:00 PM	Discussion	All	20

Wrap-up

5:20 PM	Closing comments	All	10
5:30 PM	Adjourn		

Posters

No.	Title	Lead author
1	First 3D cloud shape reconstructions based on MISR multi-angle/multi-pixel data and the principles of tomography	Anthony Davis
2	Reflectance anisotropy of Arctic tundra backgrounds from field radiometry	Rocio Duchesne
3	MISR global aerosol assessment by comparison with AERONET	Barbara Gaitley
4	Aerosol retrievals without lookup tables: Potential application to MISR	Rachel Hodos
5	Bodélé dust plume height/wind climatology derived from 10 years of MISR stereo data	Michael Garay
6	Sensitivity of multi-angle polarimetery to vertical distribution of absorbing aerosols: Quantifying measurement uncertainties	Olga Kalashnikova
7	A climatological view on the statistics of boundary layer cloud top heights, globally and in the stratocumulus to cumulus transition regions	Johannes Karlsson
8	Ten years of Bodélé dust height/wind analysis of MISR data through MINX	Sero Kassabian
9	Vector radiative transfer code MVDOM	Sergey Korkin
10	Multianglar observations of MISR cloud cover and its response to ENSO	Jae Lee
11	Effects of copper smelter modernization on air quality in Ilo, Peru as captured by MISR, MODIS and OMI	Jaehwa Lee
12	MODIS Collection 6 aerosol products	Robert Levy
13	Performance improvements to the MISR global aerosol product algorithm	John Martonchik
14	Wind speed dependence in the MODIS aerosol retrieval over ocean	Shana Mattoo
15	Comparison between MISR and GOES cloud motion vectors	Kevin Mueller
16	Progress in mapping surface roughness over Greenland using MISR	Anne Nolin
17	Linearization of a matrix operator RT code as an aid to accelerating optimized aerosol retrievals from MISR	Suniti Sanghavi